CDC INFLUENZA REPCRT NO. 6 JULY 25, 1957

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SPECIAL NOTE

Information contained in this report is a summary of data reported to CDC by State Health Departments, Epidemic Intelligence Service Officers, National Office of Vital Statistics, collaborating influenza diagnostic laboratories, and other pertinent sources. Much of it is preliminary in nature and is primarily intended for those involved in influenza control activities. It is understood that the contents of these reports will not be released to the press, except by the Office of the Surgeon General, Public Health Service, U. S. Department of Health, Education, and Welfare. State Health Officers, of course, will judge the advisability of releasing any information from their own states.

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I. Summary of Information

The first isolation of Asian strain influenza virus from the southern tier of states has been reported from Corpus Christi. Airmen recently arrived from San Diego were initially involved. Confirmation of Asian strain influenza virus was also obtained from a ship at Norfolk, Virginia.

Several outbreaks of influenza-like illness have been reported among homeward-bound Boy Scouts from the Jamboree. Crowding in railroad coaches again appears to have served as a "provoking factor" for these outbreaks. Three California groups have been most heavily affected, with sporadic cases reported among others.

An outbreak of influenza-like illness has appeared among Mexican National migrant workers in California. Only a small group is presently affected. One hundred thousand are present in the state, living primarily in crowded, poorly sanitated labor camps.

"Asian" has been suggested at a meeting in Geneva as a more exact designation for the recently isolated strains of influenza virus. Delegates from various countries thought the previous term "Far East" not exact as to geographical location.

II. Epidemic and Case Reports

6-A. VIRGINIA, Norfolk

(Reported by Capt. John R. Seal, MC, Division of Preventive Medicine, U. S. Navy, and CDC Virus and Rickettsia Laboratory, Montgomery, Alabama.)

The Pakistani ship Mahmood left Karachi on April 14 for Boston and Newport, Rhode Island. From May 31 through June 13 it remained at Newport. These dates coincide with previously reported (CDC Influenza Report No. 1-B, 2-G) outbreaks of influenza aboard naval vessels in the same area. The Mahmood arrived in Norfolk, Virginia, on June 15. Through June 23 at least 5 cases of influenza appeared on board, with isolates of Asian strain influenza virus from two.

NOTE: This is the first confirmation of Asian strain influenza at Norfolk. Previously, confusion may have resulted from positive specimens having been processed through USN Preventive Medicine Unit No. Two at Norfolk. These previous Asian strain isolates came from ships operating in the Atlantic but attached to the Newport, Rhode Island, Naval Base.

III. Progress Reports

6-B. TEXAS, Corpus Christi

(Reported by Lt. Col. H. E. Griffin, Preventive Medicine Division, Department of the Army.)

Asian strain influenza virus has been isolated by the 4th Army

Regional Medical laboratory from cases at the Naval Air Station. About 33 illnesses have occurred on the base, with the earliest cases among a group from San Diego, California.

6-C. WASHINGTON, Seattle

(Reported by Dr. W. R. Giedt, Washington State Department of Health, and Dr. R. Ravenholt, Seattle-King County Health Department.)

The military transport which arrived in Seattle on July 18 (see CDC Influenza Report 5-B) had come from Korea and Yokohama, Japan. Among 1600 passengers and 400 crew, there were about 300 cases of a febrile, 2-3 day respiratory illness during the voyage. On the ship's arrival, there were 18 active cases, including 4 cases with onsets only 24 hours before docking. All but one of these cases were hospitalized. Throat washings and blood specimens are under laboratory study.

6-D. RHODE ISLAND, Newport

(Reported by Capt. John R. Seal, MC, USN Preventive Medicine Division, and CDC Virus and Rickettsia Laboratory, Montgomery, Alabama.)

Isolations of Asian strain influenza virus have been obtained from two additional ships berthed at Newport (CDC Influenza Report No. 1-B). Throat washings were obtained in mid-June from crew members aboard the U.S.S. M. J. Manuel and U.S.S. Greenwood. Both ships were in fairly close contact with the U.S.S. Barry, which suffered a significant outbreak of Asian strain influenza at that time. Earliest cases aboard the U.S.S. Manuel occurred among engine room personnel, who lived in rather crowded quarters.

6-E. BOY SCOUT JAMBOREE

A number of outbreaks of influenza-like illness have appeared among Boy Scout groups returning from the Jamboree at Valley Forge, Pennsylvania. Since July 18, the final day of the Jamboree, cases have been reported from Louisiana, Connecticut, Massachusetts, South Carolina, Virginia, and Wyoming-Montana. These are tabulated in Table V.

Dr. J. D. Martin, Louisiana State Department of Health, has reported that 27 scouts were ill on a special train which passed through New Orleans, bound for California. Of the 319 scouts on the train, many apparently suffered mild illness en route from Valley Forge to Louisiana. The scouts were members of Hawaii and Southern California (excluding Los Angeles) troops.

Dr. Mila Rindge, Connecticut State Health Department, reports that one scout, of some 700 at the Jamboree from Connecticut, has developed a febrile respiratory illness since return to the state. Dr. G. E. McDaniel, South Carolina State Health Department, reports a single case of respiratory illness in a Marion County scout recently returned from the Jamboree. Blood specimens are being collected. Dr. A. L. Gray,

Mississippi State Board of Health, reports a number of cases of febrile respiratory illness in returned scouts. Details on these are not yet available. Dr. Mason Romaine, Virginia State Health Department, has reported that two scouts, en route by train from Valley Forge to Baton Rouge, Louisiana, stopped in Roanoke, Virginia, because of influenzalike illness. Throat washings have been forwarded to CDC.

According to Capt. J. R. Seal, Preventive Medicine Division, USN, in a group of about 300 California scouts en route home by train via New England, there have been at least 46 cases. These were hospitalized at the U. S. Navy barracks in Boston, Massachusetts, while the remainder of the group visited the Submarine Base at New London, Connecticut. Apparently 16 of the scouts were ill at time of departure from Valley Forge.

Dr. F. D. Yoder, Wyoming State Department of Public Health, and Dr. G. D. Carlyle Thompson, Montana State Board of Health, report a sharp outbreak on a San Francisco-bound train carrying home 360 scouts. The scouts represent six California counties.—San Mateo, Santa Clara, Richmond, Marin, Monterey, and Santa Cruz. There had been no illness in any of the troops on the trip East. The attack rate on the train was at least 50%. Signs and symptoms included headache, fever, cough, malaise, and sore, red throat. Apparently the affected scouts remained in the train at Gardiner, Montana, while a large number of the boys made a bus tour of Yellowstone Park.

Dr. Maurice Hilleman, Walter Reed Army Institute of Research, has demonstrated a positive diagnostic reaction with an Asian strain influenza virus isolate and a convalescent serum specimen from an adult Boy Scout leader at Valley Forge. This isolate had been obtained from the same patient's throat washings during the acute illness.

6-F. CALIFORNIA, Monterey County

(Reported by Dr. P. K. Condit, California Department of Public Health.)

Influenza-like illnesses have appeared among workers (Mexican nationals) near Salinas, California. In one group a sudden upswing in cases occurred on July 23, whereas previous illnesses were only sporadic. Symptomatology is reported to be characteristic of influenza, with duration of illness being two to three days. About 100,000 migrant workers are housed in labor camps around the state. Sanitation and housing are rather subopitmal in most camps.

IV. Influenza Virus Studies

An egg-animal-line of A/Japan 305/57 has been adapted and grown at the Influenza Virus Center in Montgomery and it shows greatly enhanced sensitivity in the hemagglutination-inhibition test. Troublesome nonspecific inhibitor is removed from sera tested with this antigen by periodate treatment. More details of this modified antigen will be forthcoming in the near future.

"Asian" has been proposed as the designation for the newly isolated strains of influenza virus. This was suggested at an ad hoc meeting on influenza in Geneva during the recent International Policmyelitis Conference. The term "Far East" was objected to as not being specific in its geographical connotations.

As noted previously, many more positive sera may be identified with the complement-fixation test than with the hemagglutination-inhibition test, which may give equivocal results. In vaccination trials this difference has been quite marked. Many more individuals with antibody rises have been detected by C-F tests than with H-I determinations. Probably, both should be done with the new strains until their serology is better defined.

Seventy-two serum specimens obtained from old people in Massachusetts by Dr. Roy Feemster, Massachusetts Department of Health, have been tested for antibodies to Asian strains of influenza virus at the CDC Montgomery laboratory (CDC Virus and Rickettsia Section and WHO Influenza Center for the Americas, Montgomery, Alabama). A very significatn number of sera showed diagnostic antibody levels. Dr. Maurice Hilleman, Walter Reed Army Institute of Research, has confirmed the presence of Asian strain antibodies in the sera of two 84-year-old people from the Netherlands. Dr. J. Mulder, Leiden, The Netherlands, originally reported the presence of these antibodies in old people and sent the specimens to Dr. Hilleman. The inference is made from these findings that the influenza virus responsible for the 1889-90 pandemic was related to the present Asian strains. Previous reports of negative findings from England and this country may be due to the chance selection of oldsters who were not in heavily affected areas during the 1889-90 pandemic. New England apparently suffered considerably during the pandemic, which may account for the present striking results.

Diagnostic services for influenza

NOTE: Dr. P. K. Condit, California State Department of Public Health, reports the isolation of Asian strain influenza virus from specimens obtained from the boys' camp previously reported in San Mateo County (CDC Influenza Report 1-F).

V. Summary Tables - Cases and Outbreaks

TABLE I

Confirmed Outbreaks and Cases of Influenza due to Far East Strains, United States June 1--July 25, 1957

		eme	1) CAT	•			
			***	No. with		Laboratory	tory	
Dates of		4	Population	like Ill-) is a	Virus i	is by	CDC Influenza
Outbreaks	Location	Type of Population	at Risk	nesses	Deaths	Isolation	Serology	Report Number
May 20 June 18	CALIFORNIA San Francisco	Ships from Far East	c-9500	/ 008	н		Yes	1-A
Early June	RHODE ISLAND	Crews of several	6	Attack rates	c	Vec		בר
	Newport)	2		3 C
Mid-June	CALLFORNIA	Naval Training						1-0
	San Diego	Station Recruits	c.4500 c.6600	3059 753	00	Yes (6-21-57)		
June 5-11	CALIFORNIA	Crew of Naval	130	202	0	Yes	e de la composition della comp	Ç
	San Diego	vessel)
June	HAWAII	Military personnel		527	0		Yes	J-E
		Military dependents	<u>٠</u> ٠٠	103/	0	·	,	
		Civilians		300/	0	,		
Late June	CALIFORNIA	Fort Ord Army Base	ż	∱ c00† _l	d	Yes	Yes	1-H
	Monterey	Army Personnel						2
MId-June	OTHO	Military man from	Single	case	0	Yes		1-0
	Cleveland	Far East	-					
June 24	OHO	Hospital orderly	Single	case	0	Yes		2-A
	- 1	Young female	Single	case	0		Yes	4-F
C2-JT 9000	CALLFORNIA	High school girls	391	224	0	Yes	Yes	1-G
T	Lavis	and adult leaders	54	+				
Jan 2	Gminnell	College students	1688	2007	0	Yes	Yes	5-7
July 1-5	UMAH	High school stills						
	Salt Lake City	dents	42	Ş	· C	200		\$
		Exposed residents	13) 	0	2		
July 5	KENTUCKY	Traveller from the	Single	case	0	Yes	<i>"</i>	3-4
4.7. 73. 40	<u>[Ouisville</u>	Philippines			·			
OT-TT Arms	FENNSYLVANIA Valley Forge	International Boy Scout Jamboree	53,000	c.1000	0	Yes		3-D

TABLE I (Continued)

		TAB	TABLE 1 (Continued)	uea,				
				No. with	÷	Laboratory	cory	and the state of t
Dates of			Population	like Ill-		Diagnosis by Virus	fg sh	CDC Influenza
Outbreaks	Location	Type of Population	at Risk	nesses	Deaths	Isolation	Serology	Report Number
July 11-13	KENTUCKY	Isolated encampment	たる	75	0	Yes		4-C
	Morris Fork							5-E
June 19-23	VIRGINIA	Pakistani ship pre-	ċ	24	0	Yes	Yes	6-A
	Norfolk	viously at Newport,						
		Rhode Island					man and a state of the state of	And had a see the second of
Early July	TEXAS	Naval Air Station	Ġ	33	0	Yes		5-C
	Corpus Christi				-			6-B
						N.		
								and the second of the second o
					,			
								7 T

TABLE II

Unconfirmed Influenza-like Illness, Outbreaks - United States June 1 - July 25, 1957

1								Section 1						1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		*
		CDC Influenza Report Number													The second secon	
		CDC Influenza Report Number	1	1-T		24	A.E.	a construction of the cons		Ţ	1		għ	Q-3	I.	Z,
	btained	Blood	Yes	Yes	1	Yes	Yes	1	A	T GS	Yes	٠.	Yes	ć	Ċ	Yes
	Specimens Obtained	Throat Washings	Yes	Yes		Yes			A STATE OF S	Set	Yes		Yes	•	Yes	Yes
		Deaths	O	1 from bacte-	rial pneu- monia	0	0		C)	0		Ô	0	0	0
	No. with Influenza-	like Ill- nesses	36	38	187	2511	e-100		77	õ	34		30-35	<i>f</i> 019	c.250	302 en route, 18 on arrival
		Population at Risk	53	75	C-a	000,04	800		6	•	99		09	ċ	0	2000 crew and passen-
		Type of Population	Boys camp 15-17 year olds	Mare Island Naval Yard - Marines	crew of cruiser moored in harbor	Camp Pendleton Marine recruits	Three summer	children's camps	City Jail	Trans form		reel-age boys and girls	Boys camp	Air Force Base	Military Personnel	Military transport arriving from the Orient
		Location	CALIFORNIA San Mateo Co.	CALIFORNIA Solano Co.		CALIFORNIA Oceanside	CALIFORNIA	resno, sonoma, Los Angeles	CALTFORNTA	Los Angeles	CALIFORNIA Sente Clana	סמונים סדים פ	LOUISIANA Grant Parish	ILLINOIS Champaign Co.	WASHINGTON Fort Lewis	WASHINGTON Seattle
		Dates of Outbreaks	June 20-25	May 29 – June 7	or nuc	June 22 - early July	Mid-July	- - - - - - -	July 8-12		Early July		Mid-July	June 26 - early July	July 4-19	July 17

TABLE III

Outbreaks of Febrile Respiratory Disease - Etiology Other Than Influenza or No Specimens Obtainable June 1 - July 25, 1957

	CDC Influenza Report Number			and a graph of the control of the co		4-B				
btained	Blood I	Yes			0			the right of the plants of the		
Specimens Obtained	Throat Washings	Yes	Negative for in-	fTuenza	0					
	Deaths	0			0			per mer		
No. with	like Ill- nesses	2007			c.270	the Course States of the co				
	Population at Risk	٠.			0651.0					
	Type of Population	Townspeople			14 summer chil-	dren's camps (in-	cludes 7 camps	previously re-	ported under 1-M)	
	Location	MISSOURI	Columbia		CALIFORNIA	San Mateo,	Santa Cruz,	Sonome,	Tuolumne, and	Plumas Counties
	Date of Outbreaks	Early July MISSOURI)		Late June				•	

TABLE IV. Reported Influenza-Like Illness among Returning Delegates from Grinnell (Iowa) Conference Through July 25, 1957

Minima desirabili mengerakan beraman desirabili dan desirabili sambar mengerakan desirabili dan de					
Date of Illness			Number of Secon-	Laboratory Confir-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Reported)	Location	Number LLL Arter Conference	dary cases in Contacts	mation Far East Strain Influenza	CDC Influenza Report Number
June 26July 2	Grinnell, Iowa	(2004 of 1688 ill at conference)	. at conference)	Yes	1-7
July 5	KEWIOCKY	24		Yes	#10
	Louisville	Ç.	ì		1
	Lexington		vv o v Serv		1
Farly July	INDIANA	2,		No	0.0
	Indianapolis	v)	
	Evansville		art a li tale	Alle, Gui	
Early July	SIONTII	19		ON	
	Decatur, Edwards-	n na	e de la companya del companya de la companya del companya de la co		
	ville, Peoria,	The second secon		A service of the serv	Application of the second seco
	Chicago		e e	~	
Mid-July	NEW MEXICO	3/		No	d_c
	Las Vegas				a -0
Mid-July	COMNECTICUT	3		ON.	\$ 6
Mid-July	NEW YORK	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	NO.	3-0-0
Mid-July	MINNESOTA	15	-	NO.	A Company of the Comp
Mid-July	COLORADO		•	ON ON	
The state of the s	Denver				•
Mid-July	NORTH CAROLINA	8	7	N	
Mid-July	MARYLAND			N. N.	
	THE PROPERTY OF THE PROPERTY O			CAL	

TABLE V. Reported Outbreaks of Influenza-like Illness among Boy Scouts Returning from Jamboree
Through July 25, 1957
(See CDC Influenza Progress Report 6-E)

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	Final Destination	Mode of	Number	Illness En	Illness after	Reported
Date of Report	dnoze, core	Transportation	ш	Route: Home	Arrival	From
July 23	Southern California and	Train	27	Yes	1	Louisiana
•	Hawaii, except Los					
	Angeles					
July 23	Connecticut	Train	Н	1	Yes	Connecticut
July 23	San Francisco via New	Train	<i>f</i> 9t	Yes	-	Boston and New
i •	England					London, Conn.
July 23	South Carolina	Train	F		Yes	Marion County,
						South Carolina
July 24	Baton Rouge, Louisiana	Train	2	Yes	* 1	Roanoke, Va.
July 25	San Francisco	Train	/ 002	Yes	1	Yellowstone,
•					**************************************	Wyo. and Mon-
						tana
July 25	Jackson, Mississippi	Train	č	•	Yes	Mississippi
		and the second s				Compression and Compression of the Compression of t